Master

EQ-6500

EQ-4500

GRAPHIC EQUALIZER EGALISEUR GRAPHIQUE

OWNER'S MANUAL
MODE D'EMPLOI

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prendre soin de lire ce manuel.

Vielen Dank für den Kauf dieses PIONEER Produkts. Diese Bedienungsanleitung vor der Inbetriebnahme sorgfältig durchlesen.

Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

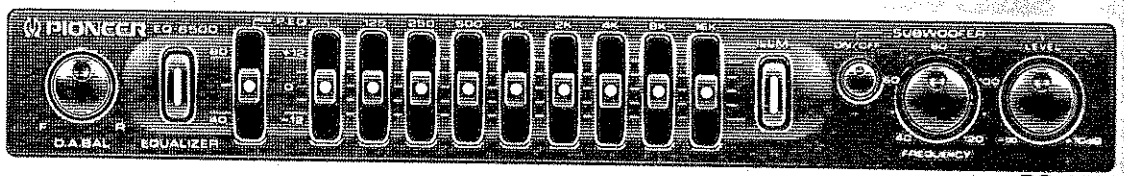
Vi tackar dig för att du vait denna PIONEER-procukt. Läs först igenom denna bruksanvisning innan apparaten tas i bruk.

Takk for kjøpet av dette PIONEER-produktet. Les denne bruksanvisningen grundig før du tar apparatet i bruk.

Dank U zeer voor de aanschaf van dit PIONEER-produkt. Lees deze gebruiksaanwijzing goed door, voordat het toestel in gebruik genomen wordt.

Grazie per aver acquistato questo prodotto PIONEER. Leggere attentamente queste istruzioni prima di usare questa unità.

Kiitos PIONEER-tuotteen hankinnasta. Ennen käyttöä pyydämme kuitenkin lukemaan huolellisesti tämän käsikirjan.



EQ-6500

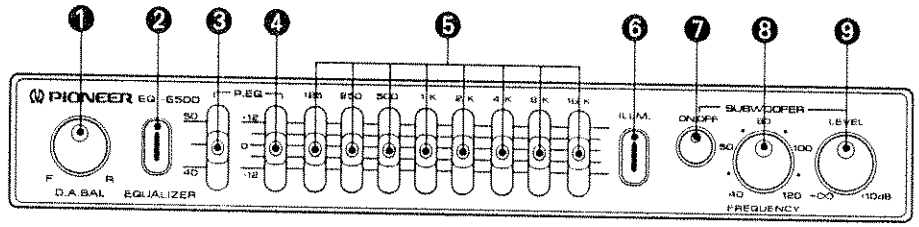
PIONEER®

The Art of Entertainment

Features

- Nine-band sliding level control for more delicate tone adjustment than usual.
- Controls for the parametric equalizer to make the best of the woofer or subwoofer used.
  (This feature is provided for the EQ-6500.)
- Output terminals for easy connection to a subwoofer with built-in crossover network circuit.
  (This feature is provided for the EQ-6500.)
- Dual amp. balancer for adjustment of volumes of the front and rear speakers.
- The front panel illumination color can be switched between green and amber instantly (Dual illumination).

Controls and Their Use



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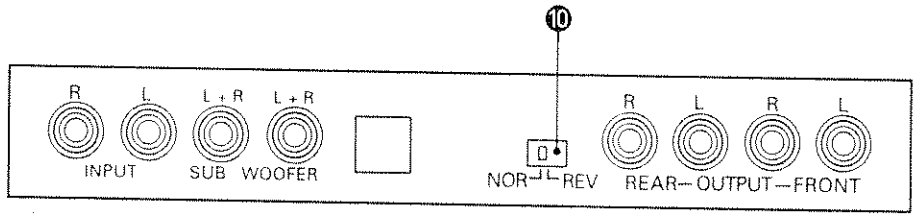


EQ-6500

EQ-6500

❶ Dual Amp Balancer

Allows you to adjust the balance between the front and rear speakers. Turning the balancer left decreases the volume of the rear speakers until sound can only be heard from the front speaker. Turning the balancer right decreases the volume of the front speakers until sound can only be heard from the rear speaker.

❷ Equalization Switch

Press this button, and ❸, ❹, and ❺ lever indicators will illuminate and the equalizer control function will activate.

❸ Parametric Frequency Control

Use this control to change heavy bass frequency when operating the parametric equalizer. The control allows to choose your desired frequency from between 40 Hz and 80 Hz according to the type of speakers and the piece of music listened to.

❹ Parametric Level Control
Use this control to adjust the level of the heavy bass frequency sound chosen with the Parametric Frequency Control ❸.

❺ Equalizer Control
Sliding vertically allows creation of a desired sound.

❻ Illumination Color Change
To change illumination color, press the button Illumination Color Change. Pressing allows change from green to amber and vice versa.

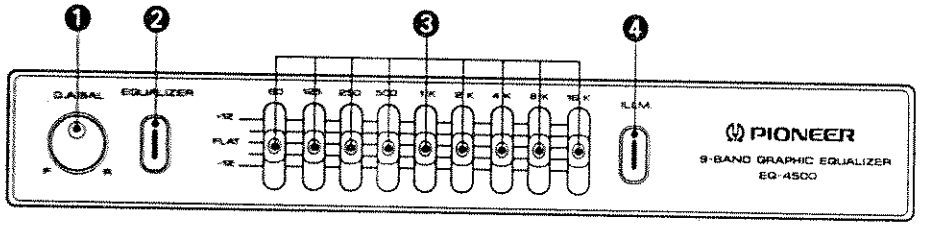
❼ Subwoofer Switch
Pressing this button operates the subwoofer function.
(The subwoofer indicator will light.)

❽ Crossover Frequency Control
Allows to change the upper limit of crossover low range frequency for subwoofer speakers or the lower limit of crossover mid to high range frequency for other speakers. Select the best crossover frequency while listening to music according to the acoustic characteristics of both cabin and speakers.

❾ Subwoofer Level Control
Allows adjustment of the output level of the subwoofer speaker. Use this control to adjust the low range of the output.

❿ Subwoofer Phase Switch
Allows switching of the phase of the subwoofer speaker. Usually this switch is left in the NOR (normal) position. Set to the REV (reverse phase) position to switch the phase to accommodate for speaker position and music type.

- To adjust ❶, ❽ and ❾, push this button once to make it pop up. After making the desired adjustments, push the button again to return it to its original position.
- Controls ❼, ❽, ❾ and ❿ operate when the subwoofer system is connected.
- If your car stereo has a fader control, set it to the center position.
- Changes in low pitched sounds may not be discernible even when the 40 to 80 Hz frequency level is adjusted if the program source does not include components in the 40 to 80 Hz vicinity or if the small diameter speakers are used.
- Changes in high pitched sounds may not be discernible even when the 16 kHz frequency level is adjusted if the program source does not include components in the 16 kHz vicinity.



EQ-4500

EQ-4500

❶ Dual Amp Balancer

Allows you to adjust the balance between the front and rear speakers. Turning the balancer left decreases the volume of the rear speakers until sound can only be heard from the front speaker. Turning the balancer right decreases the volume of the front speakers until sound can only be heard from the rear speaker.

❷ Equalization Switch

Press to activate the equalizer control function and illuminate the indicator on the equalizer control lever.

❸ Equalizer Control

Sliding vertically allows creation of a desired sound.

❹ Illumination Color Change

To change illumination color, press the button Illumination Color Change. Pressing allows change from green to amber and vice versa.

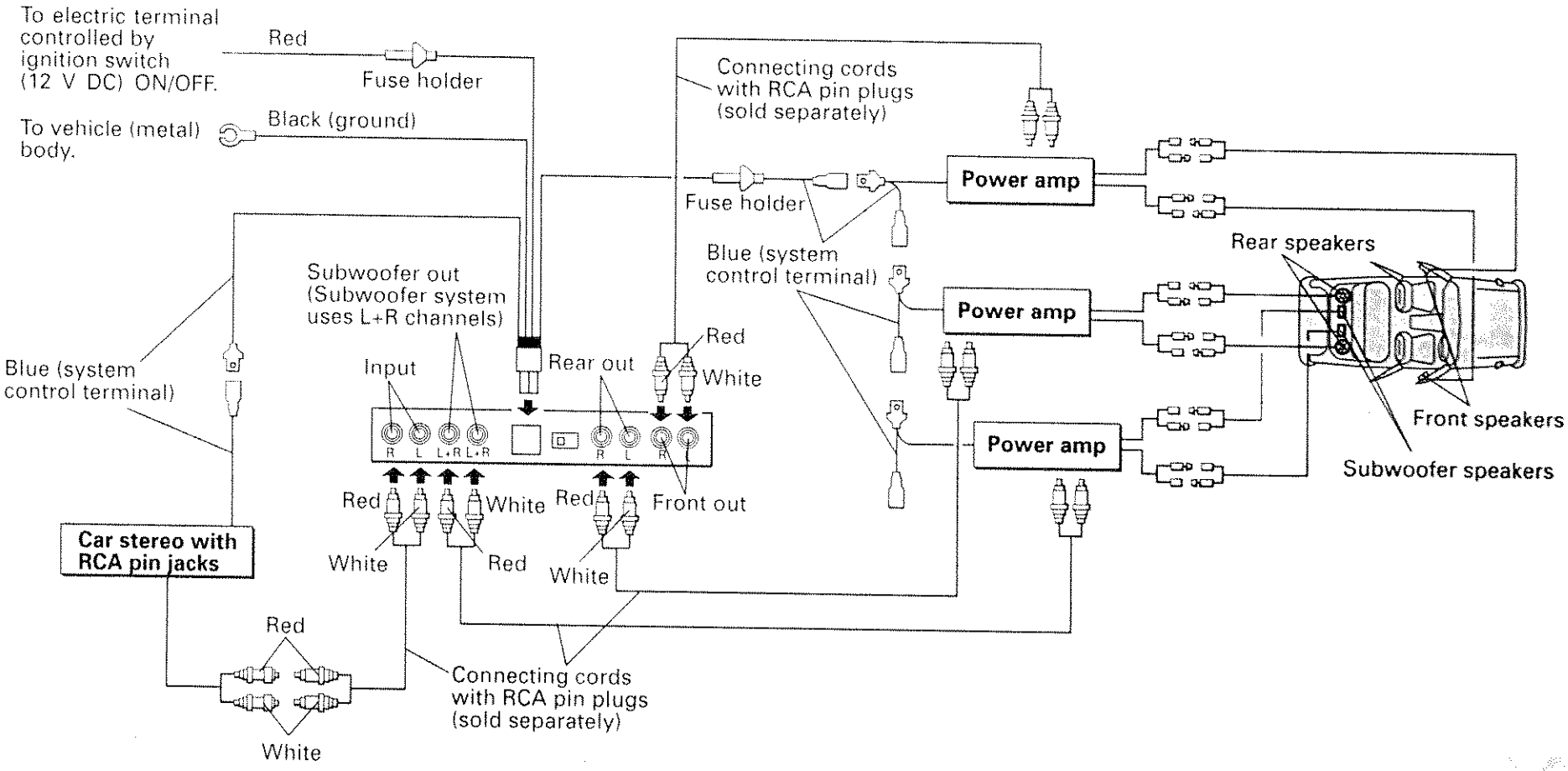
- To adjust ❶, push this button once to make it pop up. After making the desired adjustment, push the button again to return it to its original position.
- If your car stereo has a fader control, set it to the center position.
- Changes in low pitched sounds may not be discernible even when the 60 Hz frequency level is adjusted if the program source does not include components in the 60 Hz vicinity or if the small diameter speakers are used.
- Changes in high pitched sounds may not be discernible even when the 16 kHz frequency level is adjusted if the program source does not include components in the 16 kHz vicinity.

Connecting the Units

- Before making fincal connections, make temporary connections then operate the unit to check for any connecting cord problems.
- Refer to the owner's manual for details on connecting the unit to the RCA pin jacks of a car stereo or to a power amplifier, then make connections correctly.
- This unit can only be connected to a car stereo with RCA pin jacks.

4-speaker system + Subwoofer (EQ-6500)

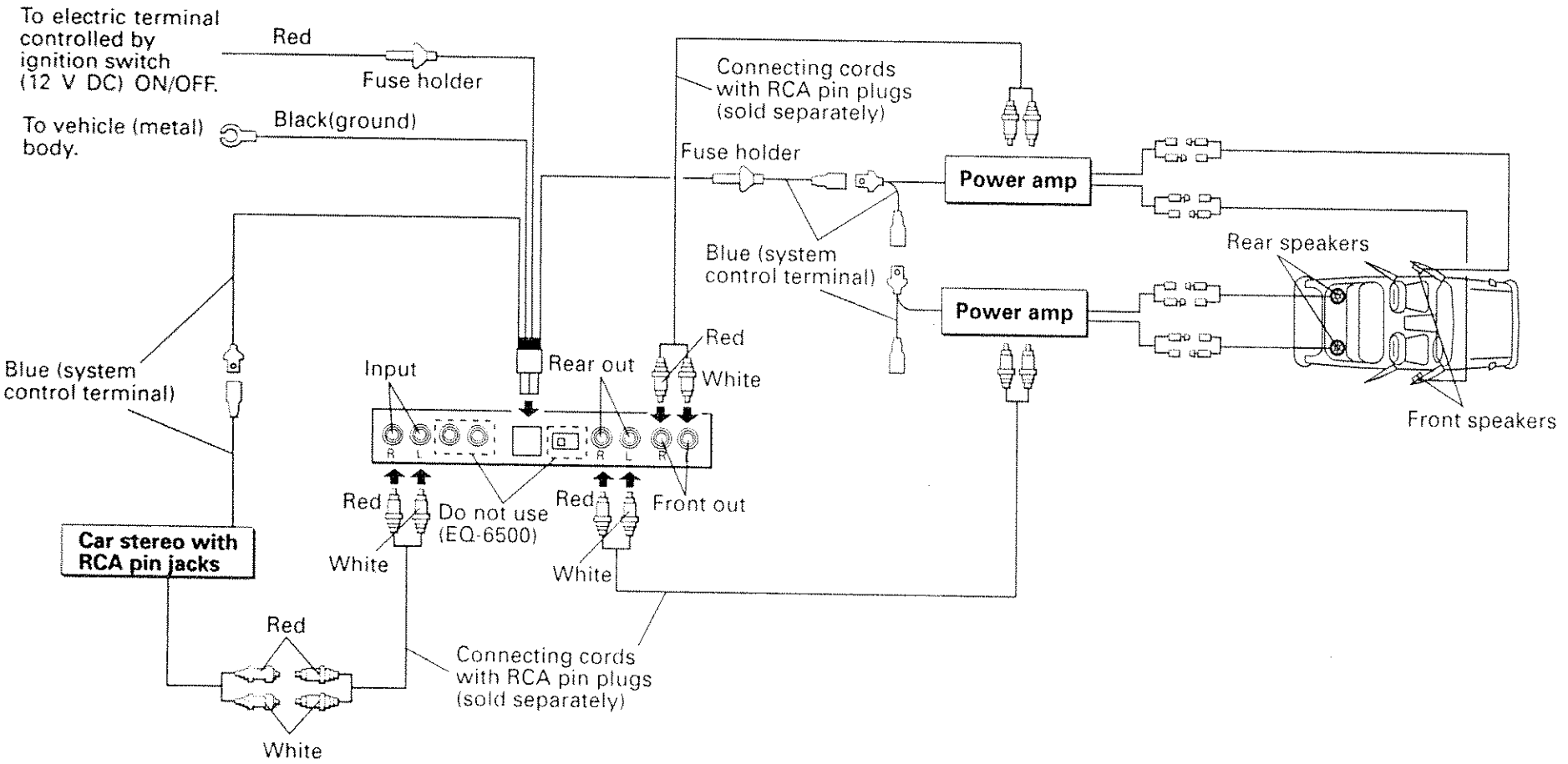
- Be sure to use this system with the subwoofer switch "ON".



4-speaker system

EQ-6500

- Be sure to use this system with the subwoofer switch "OFF".

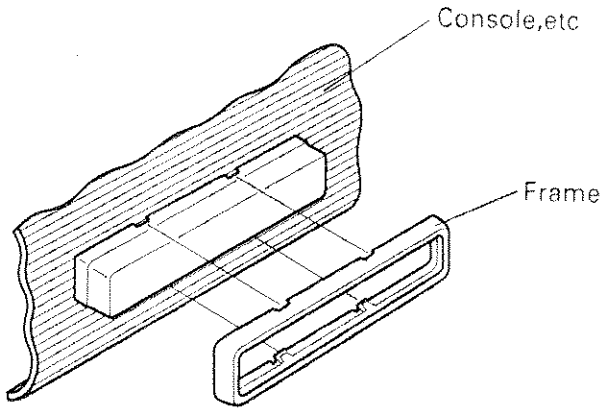


Installation

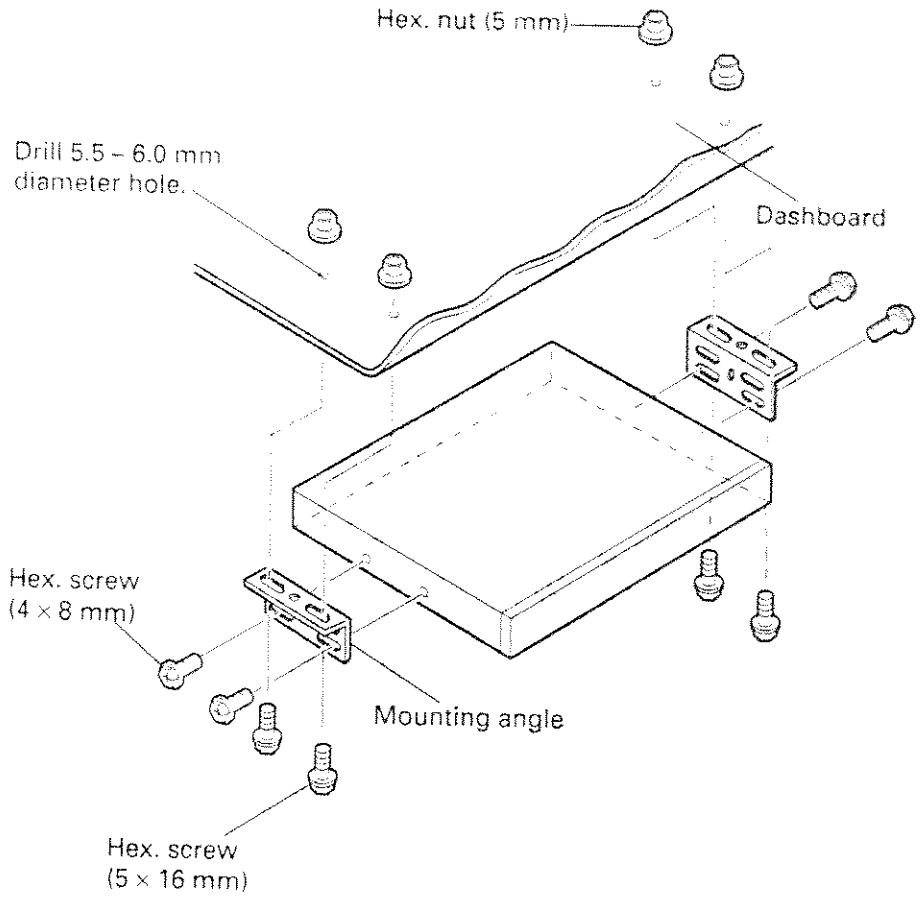
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Be sure to install the unit in a place where the driver is not bothered and where there is no danger of passengers being injured in case of sudden stops.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Make sure to take off the (–) side connector on the car battery to prevent short circuits.
  When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the negative battery cable.

Using the frame (included)

Use the frame when attaching the unit to a console, etc., to improve its appearance.



Install under the Dashboard



Precautions

- To assure proper operation of the unit, keep the vehicle interior temperature within a normal range using the vehicle's air conditioner or heater.
- Keep the sound level low enough to let you hear the outside of your car.
- Enough care must be taken against battery overdischarge caused by long operation of the set at a high sound level when the engine is not running or is idling.
- When replacing fuses, be sure to use only fuses of the rating prescribed on the fuse holder.

In case of trouble
When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

Specifications

Power source	DC 14.4 V (10.8 — 15.6 V allowable)
Grounding system	Negative type
Dimensions (chassis)	178(W) × 25(H) × 120(D) mm
(front face)	177(W) × 24(H) × 12(D) mm
Weight	0.5 kg
Equalization frequency	
(EQ-6500)	40 — 80 Hz (Parametric), 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz
(EQ-4500)	60 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz
Gain	0 dB
Equalization range	±12 dB
Frequency response	20 — 30,000 Hz (±3 dB)
Distortion	0.05% (1 kHz, 500 mV)
Signal-to-noise ratio	101 dB (IEC-A network)
Input impedance	10 kΩ
Output impedance	1 kΩ
Max. output level	2 V/1 kHz, 1% THD.
Subwoofer (EQ-6500)	
Crossover frequency	40 — 120 Hz
Crossover slope	–12 dB/octave
Output gain	– ∞ — +10 dB (L + R)
Phase switch	0/180°

Note:
Specifications and the design are subject to possible modification without notice due to impovements.